

## **BAB 5**

### **SIMPULAN**

#### **5.1. Simpulan**

Gelatin sebagai bahan pengikat tablet dan *xanthan gum* sebagai bahan penghancur tablet maupun interaksinya berpengaruh secara signifikan terhadap sifat fisik tablet dan disolusi tablet propranolol HCl. Gelatin meningkatkan waktu hancur dan menurunkan persenobat terlarut. sedangkan *xanthan gum* menurunkan waktu hancur dan meningkatkan jumlah obat terlarut. interaksi *xanthan gum* dan gelatin menurunkan kekerasan, meningkatkan kerapuhan, menurunkan waktu hancur tablet, dan meningkatkan persen obat terlarut.

Formula optimum tablet dapat diperoleh dengan kombinasi Gelatin 1% dan *xanthan gum* 5% dengan hasil teoritis, kekerasan tablet sebesar 6,55 kgf, kerapuhan tablet sebesar 0,1667%, waktu hancur tablet sebesar 3,6667 menit, dan persen obat terlarut tablet sebesar 90,8267%.

#### **5.2. Alur Penelitian Selanjutnya**

Dilakukan penelitian pembuktian beberapa formula optimum terpilih, yang kemudian dibandingkan dengan hasil secara teoritis.

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